VSR Civil Infra Pvt. Ltd.

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name Of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Client	**: Executive Engineer,** Yelahanka Division, Bangalore.
Consultant	**: M/s VSR Civil Infra Pvt. Ltd.**
Contractor	**:M/s.Technical Manager(West) ,KRIDL, Bangalore.**

GRADATION FOR DENSE BITUMINOUS MACADUM

Purpose	DBM	**Date of Sampling**	13-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	13-04-2021
Location	at Stackyard	**Tested by**	PMC
		Weight of sample(gm) :	14200

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	1070	1070	7.55	92.45	90-100
13.2mm	4785	5855	41.23	58.77	56-88
4.75mm	5480	11335	79.82	20.18	16-36
2.36mm	1460	12795	90.11	9.89	4--19
300mic	625	13420	94.51	5.49	2--10
75mic	360	13780	97.04	2.96	0--8

Remarks : Test result is confirmd as per MORTH specification

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Consultants representative **Contractor Representative** **Client Representative**

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VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name Of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Client	: Executive Engineer, Yelahanka Division, Bangalore.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

GRADATION FOR DENSE BITUMINOUS MACADUM

Purpose	DBM	**Date of Sampling**	14-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	14-04-2021
Location	at Stackyard	**Tested by**	PMC
Weight of sample(gm) :			14900

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	955	955	6.42	93.58	90-100
13.2mm	1620	2575	17.28	82.72	56-88
4.75mm	8230	10805	72.52	27.48	16-36
2.36mm	1670	12475	83.72	16.28	4--19
300mic	1385	13860	93.02	6.98	2--10
75mic	400	14260	95.70	4.30	0--8

Remarks : Test result is confirmd as per MORTH specification

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Bengaluru – 560 019.

Name Of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Client	: Executive Engineer, Yelahanka Division, Bangalore.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

GRADATION FOR DENSE BITUMINOUS MACADUM

Purpose	DBM	**Date of Sampling**	14-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	14-04-2021
Location	at Stackyard	**Tested by**	PMC
Weight of sample(gm) :			13400

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	415	415	3.13	96.87	90-100
13.2mm	1800	2215	16.53	83.47	56-88
4.75mm	7045	9260	69.10	30.90	16-36
2.36mm	1730	10990	82.01	17.99	4--19
300mic	1455	12445	92.87	7.13	2--10
75mic	220	12665	94.51	5.49	0--8

Remarks : Test result is confirmd as per MORTH specification

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Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

GRADATION FOR DENSE BITUMINOUS MACADUM

Purpose	DBM	**Date of Sampling**	15-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	15-04-2021
Location	at Stackyard	**Tested by**	PMC
		Weight of sample(gm) :	11950

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	1045	1045	8.75	91.25	90-100
13.2mm	870	1915	16.03	83.97	56-88
4.75mm	5795	7710	64.52	35.48	16-36
2.36mm	2860	10570	88.45	11.55	4--19
300mic	900	11470	95.98	4.02	2--10
75mic	225	11695	97.87	2.13	0--8

Remarks : Test result is confirmd as per MORTH specification

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Bengaluru – 560 019.

Name Of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Client	: Executive Engineer, Yelahanka Division, Bangalore.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

BITUMEN EXTRACTION TEST

Purpose	DBM	Date of Sampling	14-04-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	DBM	Date of Testing	14-04-2021
Location	at Stockyard	Tested by	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	485	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	462.425	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	21.83	
7	Binder contant (W6/W1)x100	4.50	

Remarks : Test result is confirmd as per MORTH specification

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Bengaluru – 560 019.

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Client	**: Executive Engineer, Yelahanka Division, Bangalore.**
Consultant	**: M/s VSR Civil Infra Pvt. Ltd.**
Contractor	**:M/s.Technical Manager(West) ,KRIDL, Bangalore.**

BITUMEN EXTRACTION TEST

Purpose	DBM	**Date of Sampling**	15-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	DBM	**Date of Testing**	15-04-2021
Location	at Stockyard	**Tested by**	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	510	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	486.3	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	22.95	
7	Binder contant (W6/W1)x100	4.50	

Remarks : Test result is confirmd as per MORTH specification

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Bengaluru – 560 019.

Name Of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Client	**: Executive Engineer, Yelahanka Division, Bangalore.**
Consultant	**: M/s VSR Civil Infra Pvt. Ltd.**
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

Purpose	BC	**Date of Sampling**	15-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	BC	**Date of Testing**	15-04-2021
Chainage	at Stackyard	**Tested by**	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 8150 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	695	695	8.54	91.46	90 --100
9.5mm	705	1400	17.18	82.82	70 -- 88
4.75mm	2085	3485	42.76	57.24	53 -- 71
2.36mm	1085	4570	56.07	43.93	42 -- 58
1.18mm	710	5280	64.79	35.21	34 -- 48
600mic	425	5705	70.00	30.00	26 -- 38
300mic	745	6450	79.14	20.86	18 -- 28
150mic	495	6945	85.21	14.79	12 -- 20
75mic	685	7630	93.62	6.38	4 -- 10

Remarks : Test result is confirmd as per MORTH specification

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Name Of Work : Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division

Client	**: Executive Engineer, Yelahanka Division, Bangalore.**
Consultant	**: M/s VSR Civil Infra Pvt. Ltd.**
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

Purpose	BC	**Date of Sampling**	16-04-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	BC	**Date of Testing**	16-04-2021
Chainage	at Stackyard	**Tested by**	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 9180 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	585	585	6.42	93.58	90 --100
9.5mm	2010	2595	28.27	71.73	70 -- 88
4.75mm	1115	3710	40.41	59.59	53 -- 71
2.36mm	1165	4875	53.10	46.90	42 -- 58
1.18mm	880	5755	62.69	37.31	34 -- 48
600mic	490	6245	68.03	31.97	26 -- 38
300mic	835	7080	77.12	22.88	18 -- 28
150mic	585	7665	83.50	16.50	12 -- 20
75mic	755	8420	91.72	8.28	4 -- 10

Remarks : Test result is confirmd as per MORTH specification

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Name Of Work :	Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division
Client	: Executive Engineer, Yelahanka Division, Bangalore.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

Purpose	BC	Date of Sampling	17-04-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	17-04-2021
Chainage	at Stackyard	Tested by	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 9640 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	160	160	1.66	98.34	90 --100
9.5mm	1215	1375	14.26	85.74	70 -- 88
4.75mm	1905	3280	34.02	65.98	53 -- 71
2.36mm	880	4160	43.15	56.85	42 -- 58
1.18mm	1995	6155	63.85	36.15	34 -- 48
600mic	375	6530	67.74	32.26	26 -- 38
300mic	1230	7760	80.50	19.50	18 -- 28
150mic	355	8115	84.18	15.82	12 -- 20
75mic	1005	9120	94.61	5.39	4 -- 10

Remarks : Test result is confirmd as per MORTH specification

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Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name Of Work :	Asphalting to roads at Chandrappa layout Bharath nagara adithya nagara and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub Division
Client	: Executive Engineer, Yelahanka Division, Bangalore.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

BITUMEN EXTRACTION TEST

Stage	BC	Date of Sampling	16-04-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	16-04-2021
Location	at Stackyard	Tested by	PMC

Sl.no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	508	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	479.818	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	27.43	
	Binder contant (W6/W1)x100	5.4	

Remarks : Test result is confirmd as per MORTH specification

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Client	: Executive Engineer, Yelahanka Division, Bangalore.
Consultant	: M/s VSR Civil Infra Pvt. Ltd.
Contractor	:M/s.Technical Manager(West) ,KRIDL, Bangalore.

BITUMEN EXTRACTION TEST

Purpose	BC	Date of Sampling	16-04-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	16-04-2021
Location	at Stackyard	Tested by	PMC

Sl no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	580	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	547.93	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	31.32	
7	Binder contant (W6/W1)x100	5.4	

Remarks : Test result is confirmd as per MORTH specification

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BITUMEN EXTRACTION TEST

Purpose	BC	Date of Sampling	17-04-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	17-04-2021
Location	at Stackyard	Tested by	PMC

Sl no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	635	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	599.96	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	34.29	
7	Binder contant (W6/W1)x100	5.4	

Remarks : Test result is confirmd as per MORTH specification

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